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[PDF] ► A frequency-domain, Volterra series-based behavioral simulation tool for RF ...

I Vassiliou, A Sangiovanni-Vincentelli - PROCEEDINGS OF THE IEEE ..., 1999 - Citeseer

... design of analog and mixed-signal systems, atop-down, constraint-driven design methodology for analog circuits has ... a specific pole-zero representation, that can result in very long simulation times. ... a new technique to model and simulate deterministic effects of RF systems, based ...

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[PDF] ► ... regrowth in microwave amplifiers based on the nonlinear transformation of a ...

KG Gard, HM Gutierrez, MB Steer - IEEE Transactions on Microwave Theory ..., 1999 - Citeseer

... Thus, distortion in analog radio is accurately modeled using discrete tone steady ... test [1], [2]. A modulated input signal applied to radio-frequency (RF) electronics in ... differences between the baseband equivalent behavioral model and corresponding RF envelope behavioral ...

Cited by 103 - Related articles - View as HTML - BL Direct - All 13 versions

[PDF] ► Introduction to RF simulation and its application

KS Kundert - IEEE Journal of Solid-State Circuits, 1999 - Citeseer

... 1 of 47 Version 2, 23 April 2003 Radio-frequency (RF) circuits exhibit several distinguishing characteristics that make them difficult to simulate using traditional Spice ... BJTs have long been used in high-frequency analog circuits and their models are well suited for RF circuits. ...

Cited by 140 - Related articles - View as HTML - BL Direct - All 31 versions

[PDF] ► ... simulation for analysis, design, and optimization of opto-electronic, radio frequency ...

FM Rotella - 2000 - www-lcad.stanford.edu

... boundary conditions in a mixed circuit and device simulation where device physics play a crucial role in high frequency effects in radio frequency devices, radiative recombination ... RF simulation is a relatively new field and circuit models are generally derived from analog ...

Cited by 12 - Related articles - View as HTML

[PDF] ► Efficient per-nonlinearity distortion analysis for analog and RF circuits

P Li, LT Pileggi - IEEE Transactions on Computer Aided Design of ..., 2003 - Citeseer

... LI AND PILEGGI: EFFICIENT PER-NONLINEARITY DISTORTION ANALYSIS FOR ANALOG AND RF CIRCUITS ... distortions (which are usually the largest distortion components for an RF system ... analysis even though different linearizations might be used in simulation iterations. ...

Cited by 8 - Related articles - View as HTML - BL Direct - All 6 versions

[PDF] ► Computer-aided analysis of nonlinear microwave analog circuits using frequency-...

CR Chang - 1990 - people.engr.ncsu.edu

... RF — Radio frequency. VCO — Voltage control oscillator. ... In chapter 4, the arithmetic operator method is verified using the simulation of microwave amplifier circuits. ... Although the methods for analyzing nonlinear analog circuits are varied, they are all based on solving a ...

Cited by 12 - Related articles - View as HTML - All 2 versions

Adaptive CMOS predistortion linearizer for fiber-optic links- ► psu.edu [PDF]

R Sadhwani, B Jalali - Journal of Lightwave Technology, 2003 - opticsinfobase.org

... The low-cost linearizer can reduce the cost or improve the performance of analog and multilevel optical links. ... In addition, in radio frequency (RF) systems, the input signal amplitude is a small

signal () quantity. ... Fig. 2. Predistortion system mathematical **simulation** model. (6) (7) ...

Cited by 27 - Related articles - All 14 versions

[PDF] ► Second order nonlinearity analysis of Gilbert mixer

S Kang, B Kim - IEEE MTT S INTERNATIONAL MICROWAVE ..., 2003 - postech.ac.kr

... Order Nonlinearity Analysis of Gilbert Mixer Sanghoon Kang1 and Bumman Kim2 'RF/Analog PT System ... And com- mon mode RF current and differential mode IM2 currents are generated ... 0-7803-7694-3/03/\$17.00 © 2003 IEEE 2003 IEEE **Radio Frequency** Integrated Circuits ...

Cited by 10 - Related articles - BL Direct - All 5 versions

Nonlinear distortion analysis via linear-centric models- ► york.ac.uk [PDF]

P Li, LT Pileggi - Proceedings of the 2003 Asia and South Pacific Design ..., 2003 - portal.acm.org

... state **simulation** methods [11][12] have made the **simulation** of ana- log/RF circuits with ... is needed which is a significant impediment to using Volterra series for practical **analog** circuits. ... analysis are closely related to those from a linear-centric circuit **simulation** environment based ...

Cited by 4 - Related articles - All 6 versions

Method and system for modeling time-varying systems and non-linear systems

J Phillips - US Patent 6,349,272, 2002 - Google Patents

... Further, It is now generally accepted that in LTI systems, choosing **radio frequency** circuits, mixed ... be developed particular vasive in all types of designs including digital, **analog**, and for ... is a figure of merit for the distortion properties of digitally modulated **RF** transmission systems ...

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